WHAT IS CLAIMED IS:

1. A filter element comprising

a plurality of resonators that are arranged in series arms and parallel arms in a circuit,

at least one of the series-arm resonators including a plurality of single-terminal pair piezoelectric thin-film resonators connected in parallel.

2. The filter element as claimed in claim 1, wherein at least one of the parallel-arm resonators includes a plurality of single-terminal pair piezoelectric thin-film resonators connected in parallel.

3. A filter element comprising

a plurality of resonators that are arranged in series arms and parallel arms in a circuit,

at least one of the parallel-arm resonators including a plurality of single-terminal pair piezoelectric thin-film resonators connected in parallel.

4. A filter element comprising

a plurality of resonators that are arranged in series arms and parallel arms in a circuit,

at least the series-arm and/or parallel-arm resonators at the first stage on the signal input side including a plurality of single-terminal pair piezoelectric thin-film resonators connected in parallel.

5. The filter element as claimed in claim 1, wherein the series-arm resonator including the plurality of single-terminal pair piezoelectric thin-film resonators connected in parallel has an admittance

matched with the admittance of at least one of the other series-arm resonators.

6. The filter element as claimed in claim 2, wherein the parallel-arm resonator including the plurality of single-terminal pair piezoelectric thin-film resonators connected in parallel has an admittance matched with the admittance of at least one of the other parallel-arm resonators.

7. The filter element as claimed in claim 1, wherein the single-terminal pair piezoelectric thin-film resonators connected in parallel have exciting parts that are uniform in size.

8. The filter element as claimed in claim 1, which has a ladder filter structure.

9. The filter element as claimed in claim 1, which has a lattice filter structure.

10. The filter element as claimed in claim 1, wherein the single-terminal pair piezoelectric thin-film resonators each comprises:

a substrate that contains at least one of silicon, glass, and ceramics;

a piezoelectric substrate that contains at least one of aluminum nitride, zinc oxide, lead zirconate titanate, and lead titanate; and

an upper electrode film and a lower electrode film that are single-layer or multi-layer films containing at least one of aluminum, copper, gold, molybdenum, tungsten, tantalum, chromium, titanium, platinum, and rhodium.

11. The filter element as claimed in claim 1, wherein the parallel-arm resonators each includes an

upper electrode film having a SiO_2 film formed thereon.

12. A filter device comprising:
a filter element; and
a package that houses the filter element,
the filter element including
a plurality of resonators that are arranged in series arms and parallel arms in a circuit,
at least one of the series-arm resonators including a plurality of single-terminal pair piezoelectric thin-film resonators connected in parallel.

13. A duplexer comprising
a transmission filter element and a reception filter element,
the transmission filter element including a plurality of resonators that are arranged in series arms and parallel arms in a circuit,
at least one of the series-arm resonators including a plurality of single-terminal pair piezoelectric thin-film resonators connected in parallel.

14. A duplexer comprising
a transmission filter element and a reception filter element,
the transmission filter element including a plurality of resonators that are arranged in series arms and parallel arms,
at least one of the parallel-arm resonators including a plurality of single-terminal pair piezoelectric thin-film resonators connected in parallel.

15. A high-frequency circuit that transmits and receives radio signals, comprising:

a first amplifier that amplifies transmission signals;

a second amplifier that amplifies reception signals; and

a duplexer that includes a transmission filter element and a reception filter element,

the transmission filter element including a plurality of resonators that are arranged in series arms and parallel arms in a circuit, and

at least one of the series-arm resonators including a plurality of single-terminal pair piezoelectric thin-film resonators connected in parallel.

16. A high-frequency circuit that transmits and receives radio signals, comprising:

a first amplifier that amplifies transmission signals;

a second amplifier that amplifies reception signals; and

a duplexer that includes a transmission filter element and a reception filter element,

the transmission filter element including a plurality of resonators that are arranged in series arms and parallel arms in a circuit, and

at least one of the parallel-arm resonators including a plurality of single-terminal pair piezoelectric thin-film resonators connected in parallel.

17. A high-frequency circuit that transmits radio signals, comprising:

an amplifier that amplifies transmission signals; and

a filter element that filters the transmission signals,

the filter element including a plurality of

resonators that are arranged in series arms and parallel arms in a circuit, and

at least one of the series-arm resonators including a plurality of single-terminal pair piezoelectric thin-film resonators connected in parallel.

18. A high-frequency circuit that transmits radio signals, comprising:

an amplifier that amplifies transmission signals; and

a filter element that filters the transmission signals,

the filter element including a plurality of resonator that are arranged in series arms and parallel arms in a circuit, and

at least one of the parallel-arm resonators including a plurality of single-terminal pair piezoelectric thin-film resonators connected in parallel.